

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in this application.

1. (Currently Amended) —"HEAT TRANSMITTING FLUID AND ITS RESPECTIVE OBTAINING PROCESS"~~characterized by wherein~~ the heat transmitting fluid composition, Express in percentage (%), in weight, in relation to the product total weight, as follows: antioxidant, preferentially derived phenyl or equivalent, being added in the fluid between ~~0,1~~ 0.1 and ~~0,5%~~ 0.5%, in mass – basic fluid, polyinternalolefines PIO or polyalfaolefines PAO being added in the fluid between ~~99,5~~ 99.5 and ~~99,9%~~ 99.9%, in mass.

2. (Currently Amended) —"HEAT TRANSMITTING FLUID AND ITS RESPECTIVE OBTAINING PROCESS"~~characterized by wherein~~ the procedure for the obtaining of heat transmitting fluid ~~consist of the following phases~~ comprises:

~~weighting~~ 1) weighing of reagents used ~~in~~ in the heat transmitting fluid preparation, using a suitable gauged scale;

~~2 fluid homogenization~~ 2) homogenizing the heat transmitting fluid with the help of mechanical shakers suitable for low viscosity, preferentially with medium speed and constructively suitable to operate with synthetic hydrocarbon, enough capacity to contain all reagents to be used for the manufacturing of fluid and provided with heating system for work between room temperature and up to 70°C, during the homogenization;

~~3) Addition of antioxidant in the container mentioned in item 2~~ adding an antioxidant to the mechanical shaker, under continuous shaking;

~~4) Mixture and homogenization~~ mixing and homogenizing the heat transmitting fluid after the addition of the antioxidant, being the mixing time defined according to the practice, until an homogeneous mixture is obtained, being that after the mixture, the heat transmitting fluid is placed in ~~usual suitable, preferentially metal ones~~ metal containers.